Ethan Gates

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EDUCATION

Bachelor of Computer Science, Western Governors University
Completed: Feb 2025

CERTIFICATIONS

- ITIL 4 Foundations November 2023
- Linux Essentials January 2025

TECHNICAL SKILLS

- Programming languages: Python, Java, C#, JavaScript, SQL
- Tools: Visual Studio Code, PyCharm, Git/GitHub, MySQL, Microsoft Excel, Word, and Power BI
- Hardware: Experience working with Arduino microcontrollers and Raspberry Pi boards
- Frameworks and Libraries: React, Spring Boot, NumPy, Matplotlib, Pandas, Tensorflow

INDEPENDENT PROJECTS – Hosted on my GitHub page

- News Bias Analyzer: Developed a machine learning-powered web application using Fastapi and Next.js to classify news articles based on political bias (Left, Neutral, Right) and authenticity (Fake vs. Real News). Implemented OpenAI's embedding API for text vectorization and leveraged deep neural networks for high-accuracy classification. Achieved 74.3% accuracy in political bias classification and 99.99% accuracy in fake news detection.
- *Stock Portfolio Analysis Tool*: Leveraged Python to extract data from the Yahoo Finance API, evaluate historical stock performance, and display portfolio trends using Pandas and Matplotlib.
- *National Number Knockout Solver*: Engineered a comprehensive N2K utility in Python, capable of generating random puzzles and solving complex equations, enhanced by a predictive difficulty algorithm.
- Finance Dashboard: Created a Power BI tool using PowerPoint for mockups, guided by example stakeholder KPIs, integrating Excel data to offer clear insights into net worth, expenses, and savings through interactive, real-time visualizations.

PROFESSIONAL EXPERIENCE

Caregiver, Accra Home Care, Minnesota
2022-Present

Engineered scalable solutions for tracking medications, supplies, and patient information in Google Sheets, enabling tracking and monitoring to optimize treatment planning and care delivery, as well as assisted in day-to-day tasks of tracking, organizing, and restocking medical supplies

Team Trainer, Chick-Fil-A, Minnesota
2021-Present

Performed and trained new employees across all roles, curated customer experiences, and performed performance evaluations and training assessments

EXTRA-CURRICULARS

- UMTYMP: Completed Algebra I & II through University of Minnesota Talented Youth Mathematics Program. This program provides advanced math coursework for talented high school students.
- National Number Knockout: 2017 National Number Knockout Champion. This math competition tests mental math skills and creative problem-solving abilities.

- National STEM fest participant: Represented N2K at national STEM fest in 2018.
- Math League: Participated in Math League 2017-2021.
- Scoring Tech: Scoring tech for National Number Knockout Competition 2019.

REFERENCES

Dr. Rachel D. Havyer, M.D | havyer.rachel@mayo.edu | (480) 216-3832
Andrew Bowden, Director, Chick-Fil-A | bowden.andrew@cfaearofcorn.com | (540) 263-8153
Justin Rudquist, Hospitality Director, Chick-Fil-A | rudquist.justin@cfaearofcorn.com | (507) 226-3452